Newborn Hearing Screening Basic Steps for ABR Testing

Careful electrode site preparation is the most important part of getting an accurate screening test. Low electrode impedance is essential to reduce noise in ABR recordings.

- O Be sure the baby is quiet; sleeping is ideal.
- Prepare the skin for electrode (sensor) placement. Lotions can cause higher impedance levels—use a small alcohol wipe to clean the area prior to placing the electrodes if necessary.
- To help reduce impedance, electrode gel, water or saline, or a tiny amount of Ten20 paste can be used when placing the electrodes.
- As you place the electrodes on the baby's skin, use firm pressure, pressing down for a few seconds on each electrode to give it a chance to stick.
- Orient the electrode wires so they are all facing the same direction—away from the top of the baby's head usually works best.
- Make sure the wires are not crossed this can cause interference.
- After the electrodes are placed, put the probe or insert earphone in the baby's ear, or place ear couplers over the ears. Ear couplers need to be positioned on the ear so they completely cover the external ear and the cables are to the front of the baby.
- Position the baby to minimize neck artifact. Swaddling the baby also helps make sure he or she will not interfere with the probe position or ear couplers during testing.
- Monitors and other electrical equipment in the room can sometimes cause electrical interference.
- When the screen is complete, take the electrodes and ear couplers, if used, off the baby. (If the couplers seem stuck, support the underlying skin with your fingers and gently lift the edge of the coupler.) Using water on a gauze or paper towel to saturate and soften the sensor will make it slippery and easy to remove.
- O Please fill out a pink (for an initial hearing screen) or blue (for a re-screen) card and send it to: Washington State Department of Health EHDDI Program 1610 NE 150th Street, PO Box 55279, Shoreline, WA 98155.

ABRTESTING

Newborn Hearing Screening ABR and OAE Equipment Checklist

Has your equipment been calibrated within the last year? This is necessary, in addition to the annual electrical safety checks done by your biomedical department.

For most OAE equipment, and Biologic OAE and ABR equipment, contact:

MSR Northwest

17528 W. Main St., Monroe, WA 98272 Phone: 360-282-4170 or 800-950-3277

Fax: 360-282-4175 http://msrnw.com



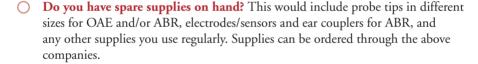
Natus Medical

Phone: 650-802-0400 or Toll-free: 888-496-2887

Fax: 650-802-8680

E-mail: technical_service@natus.com

Hours: Monday-Friday, 6:00 a.m. - 5:00 p.m. Pacific Time



- O Does someone regularly perform a listening check and/or probe check according to manufacturer's instructions? For assistance, contact the above companies or contact Wendy Harrison at Seattle Children's Hospital (206-987-2457 or wendy.harrison@seattlechildrens.org).
- O Do you know how to order more pink and blue cards for reporting data to the state?

Washington State Department of Health – EHDDI Program 1610 NE 150th Street, PO Box 55279, Shoreline, WA 98155

Phone: 206-418-5613 Fax: 206-418-5415

E-mail: NBS.Prog@doh.wa.gov

www.doh.wa.gov/ehsphl/phl/newborn/order-form.htm













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